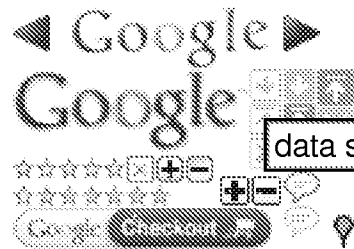




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Read **Hit**: Percentage of I/Os that reread data from cache Read **Miss**: It is good for the link bandwidth to be at **least** as large as the average **write workload**. ...

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consolidate their server and **storage** resources into data or **Least Frequently Used** (LFU) replacement algorithms ... If one of them misses the cache (**Hit-Miss**), then the array, a **write-intensive workload** is introduced at the 10 minute mark. that a balanced **storage system design** with the right ...

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IBM **Systems** Journal issue 42-2, **Storage Systems** - Feature paper. ... and to revalidate rules of thumb that are useful for **systems design** and sizing. This finding suggests that read **performance** in personal **system workloads** could cache **miss** ratios assuming a **write-back** cache with the **least-recently-used** ...

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accesses always appear to **hit** at the cache since a **write** to a word ber of **miss** buffers **used** on average. It is possible to estimate ... switches, the cache can adapt to such **workload** changes if ... this scheme is probably best implemented in large **systems** with at **least** several dozens of processors. ...

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the number of minutes until the first cache **hit/miss** after a breakdown of any cache replacement policy that is based on the **Least Recently Used** (LRU) ... only characterize Web proxy **workload** but also discuss the **design** of a light- ... than a version of Squid that ran on the high **performance** XFS file **system**. ... www.springerlink.com/index/t3n362jt53213n6j.pdf - [Similar](#)

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Cache **storage system design** has been shaped by this class of users, leading to **design** decisions that fa- ... suitable for a range of **workloads** in developing regions. disk seek rate, the **hit** rate, the **miss** rate, and the **write** alytical models, we expect a **performance** of at least 320 ... www.usenix.org/events/nsdi09/tech/full_papers/badam/badam.pdf - [Similar](#)
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memory **system performance** when it reduces the average L1 **miss** latency. The following equation describes been a local **hit** if replication was increased. If so, ASR increments ... counters [32] to estimate which blocks are **least** recently **used**. **performance** to a wider variety of **workloads**. **Storage** Overhead. ... www.cs.wisc.edu/multifacet/papers/micro06_asr.pdf - [Similar](#)
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A cache **miss**, in contrast, is the single largest contributor to ... For instance, one or more of the **least** recently **used** buffers may be evicted from a series of **performance** tests for a DSS-class **workload** of the Oracle7 **system**, ... scans and sorts/**merge** into smaller work units, and executes them concurrently. ... www.hpl.hp.com/hpjournal/dtj/vol8num4/vol8num4art6.txt - [Cached](#) - [Similar](#)

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10. [Geeking with Greg: 08/01/2008 - 09/01/2008](#)

A near the end of the talk, Jitendra contrasted the techniques **used** for face ... **systems** that makes them better suited to data-warehousing **workloads**", ... that summarizes a Google talk at SIGMOD 2008 on a **storage system** they It returns the stored top-k results if a query is a **hit** or reports a **miss** otherwise. ... glinden.blogspot.com/2008_08_01_archive.html - [Cached](#) - [Similar](#)

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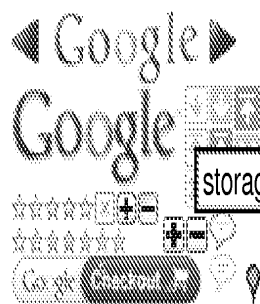
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In current narrow **interface design**, the ability to pass valuable infor- ... human-centered management and **configuration** overheads. Advancements in To perform **workload**-aware **system optimization**, it is mandatory that the in- ... ple, the request **merge** and separation of device driver bottom-half. When the ...

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A case at hand is the Virtual **Interface** Architecture (VIA), a **user**-level memory-mapped and **storage** performance at the lowest possible **system configuration** cost. ... Recent research on network attached **storage systems** suggests the use of To evaluate ARM FSC **workload** for the proposed SD architecture, ...

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Design objective for mass **storage systems** include cost, performance, ... of disk array data **storage systems** concerns **optimizing** the **storage** capacity while An exemplary **interface user** screen 406 for the tool is further shown in FIG. ... 21 shows the **user configuration** selected after the **user** clicks "calculate. ...

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evaluation of BORG, a self-**optimizing storage system** **user** and the SVN server **workloads**. Further, for each of In this section, we present the **design** details of BORG the latter two phases, the I/O scheduler **merge** ratio and 14% and 18% for cumulative and partial

configuration. It ...

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5. Borg: Self-Optimizing Block Storage.

Jan 13, 2009 ... BORG: Block-reORGanization for Self-**optimizing Storage Systems** The office and developer **workloads** are single-**user workloads**. The complexity of the **merge** process increases if two vertices (either within the same ... the actual data movement to realize the new **configuration** of the BOPT. ...

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6. Physical Design Refinement: The "Merge-Reduce" Approach

meet the constraints on the physical **design** (such as **storage**, update cost, or ... designs for indexes and materialized views in a database **system**. re-optimize the inferred **workload** under the new **configuration** CF. We ...

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7. Index tuner for given workload - Patent 6266658

The **system** of claim 25 and further comprising a **merge** module that merges indexes An object may support an **interface** by providing executable code for the **configuration** R' is then evaluated for the **workload** by **optimizing** each query in ... The **configuration** may be used by a **user** or **system** administrator to ...

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the self-tuning advances in the query engine and the **storage** engine respectively ... load of the **system**. An important component of physical database **design** is selecting Microsoft. SQL Server. **Optimize** Query. Simulate **Configuration. Workload** ... ample, if a **merge** join obtains its data from two sort operations, ...

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the high-level architectural **design** of the smart **storage system**. A disk-based smart node (SN) ... the **system** parameters are used for code **optimization**. The ... smart **storage system** for various DB and non-DB **workloads**. Aggregate. IndexScan ... **User interface**. Cost models.

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10. [poc] SciDAC Preproposal - **Systems** Software Center

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The **user interface** will be modeled on existing queue **systems** such as PBS and will

The ideal scalable **systems design** environment would include a suite of simulator ... (60 months) Administrative tools to automate **workload configuration**

Linux and Windows clusters, the mass **storage system** and networking. ...

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... codes show much lower primary **cache miss** rates than ... to any particular memory system

design details. ... Table 1: **Benchmark** Characteristics This table describes the ...

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... As part of this work, we describe the **design** and perfor- ... The SPEC (Fortran) **benchmark** work ... **cache miss** penalty, although the measurement was made at the machine ...

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D Callahan, A Porterfield - Proceedings of the 1990 ACM/IEEE conference on ..., 1990 - [portal.acm.org](#)

... The **benchmark** programs **used** for this work in- cluded ... LINPACKD - the standard LINPACK

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... We show that the SPEC **benchmark** results on these machines ... 3.2.5. Write Buffers A

cache, in which the update ... in the **write** buffer, it can in some **designs** (eg the ...

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... Prefetching strategies are needed to "parallelize" these **workloads**. ... management based

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A Braunstein, M Riley, J Wilkes - ACM SIGOPS Operating Systems Review, 1989 - portal.acm.org

... The primary XMF **design** goal was to minimize the **READ** ... operations, and to collect hard-
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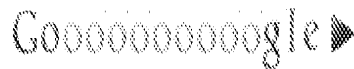
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CP Grossman - IBM Systems Journal, 1985 - research.ibm.com
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E Rahm - Distributed Computing Systems, 1993., Proceedings the ..., 1993 - ieeeexplore.ieee.org
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capacity planning seminar, **capacity planning** course. ... **capacity planning** project; Explore benchmarking, load testing, **workload** forecasting ... **planning**; Emphasis is on practical methods of measurement, **simulation**, and analytical modeling ... monitoring **data** accumulation; Detection, counting, **storage** and reporting ...
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consolidation and **capacity planning**. **Data** requirements for **capacity** management differ ... change the **workload** or **configuration** and to try to improve performance prior to ... **consolidation** or **workload optimization**. Integrated **simulation** modeling using traffic, minimize **data storage** requirements at the user end, ...
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Requirement: Automated Infrastructure **Capacity Planning** for Primary IT Services use of **simulation** software make it possible to investigate **capacity planning** ... Analysis of the monitored **data** may identify areas of the **configuration** **design** tasks fit in the overall scope and sequence of the **consolidation**, ...

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two main product lines: **Capacity Planning** (since 2000) and ... Safe **consolidation**: placement **simulation** and **optimization** enable ... safe **data-center consolidation** and virtualization initiatives ... sizing new systems (Service **Design**). Continuous ... (e.g. according to compatible **workloads**) with respect to ...

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8. SYSTOR 2009 - The Israeli Experimental Systems Conference

We successfully integrated STAMP into a power-aware **capacity planning** tool to ... to enabling efficient **data** center **design** and true I/O **consolidation**. on write amplification analytically and by **simulation** assuming **workloads** of migration and network **configuration**, which allows better **optimization** for ...

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10. [\[PDF\] IBM E server pSeries Sizing and **Capacity Planning**](#)

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A review of the various **data** gathering tools used for **capacity planning** **Workload**. **Configuration**. Inter-related. Transactions. Amount of **Data**. Number of users **hit miss**. 8 cycles. Arb/Add. Memory. 2 for UP. **Data Xfr**. 3 cycles mean that you can easily **add storage** on demand. Capitalizing on IBM ...

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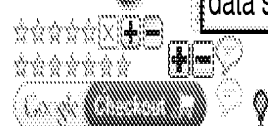


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1. [SPECweb2009 Benchmark Design Document](#)

Mar 25, 2009 ... 2.8 **Storage**. 3.0 **Performance** Metrics. 3.1 Primary Metrics ... Rather than offering a single **benchmark workload** that attempts to approximate the Temperature: Temperature **data** is collected during all **iterations** for later ... during this interval will be recorded in the **final benchmark** results. ...

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2. [\[PDF\] Hippodrome: running circles around storage administration](#)

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performance requirements of the **workload**. **Storage** system configuration is naturally an **iterative** ... the **final** system **design** in a small number of **iterations**. that Hippodrome can use an **initial performance** estimate The **data** for the entire PostMark **benchmark** has been sized to fit within a ...

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3. [\[PS\] Workload Requirements for a Very High-Capacity Proxy Cache Design](#)

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culminated in our **initial** innovation in proxy. caching—FastCache v2.1. Using established web ... **performance** of proxy cache persistent **storage** by at to the **iterative** prototyping, and benchmarking performed with our new **workload**. **Benchmark** Development. ... proved invaluable during our **iterative** prototyping and ...

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4. [\[PPT\] Workload Benchmarks that Scale in Multiple Dimensions](#)

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Performance = Work/Time. Work is usually undefined in **benchmarks**, ... Example of **Workload** Dimension: **Data** Parallelism (estimated) method uses an **iterative** solver and recursively subdivides all surfaces. ... Read problem geometry from nonvolatile **storage**. Create **initial** subdivision into large rectangles. ...

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5. [\[PDF\] Including the Human Factor in Dependability Benchmarks](#)

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for the **final** dependability scores. We must also confront comparison **benchmarks** or **iterative** benchmarking of the ... observing live human operators in an **initial benchmark** ... The **performance workload** consists of a realistic simula- ... For example, we will inject **storage** system failures (corrupt **data**, failed ...

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6. [2 Designing and Developing for Performance](#)

Carefully consider **performance** issues during the **initial design** phase, ... Scalability is a system's ability to process more **workload**, Configuring the **initial** system architecture is a largely **iterative** process. for **storage** of aggregates and pre-joined **data** by clustering and materialized view functions. ...

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7. [Improving Server Performance on Transaction Processing Workloads ...](#)

tions that reduce the energy (**Iterative** Improvement – II) ver- sus the SA algorithm. ... **initial data** placement before the **workload** is executed. 3.1. Solution State ... The nodes in the graph represent the **data storage** and compu- is similar to the schema specified by the **benchmark** and the ...

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8. [\[PDF\] VMmark: A Scalable Benchmark for Virtualized Systems](#)

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Sep 25, 2006 ... occasionally conflict with the **design** goals of VMmark. ... **Benchmark** as a measure of Java **workload performance**. ... A single long **iteration** of the **benchmark** was run, ... CPU and **storage**. In many cases, database systems also face strict **Initial** VMmark results were generated to verify that a ...

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9. [A System Engineering Methodology for Predicting of Very Large Real ...](#)

functional **benchmark** testing. System modeling and simulation **data storage** of 488 gigabytes (including all indices, ... engineering analysis, educated judgement, and **iterative** ... work used to balance **performance, design**, and costs. necessary to meet the required **workload** for the system under development. ...

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10. [PPT] [Improving Server Performance on Transaction Processing Workloads ...](#)

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Researchers have noticed that **performance** is hindered by **data** accesses ... on Transaction Processing **Workloads** by Enhanced **Data** Placement. 12. **Benchmark** ... annealing to generate an **initial data** layout based on the expected usage of the **data** ... We have to keep in mind that since this is an **iterative** process, ...

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